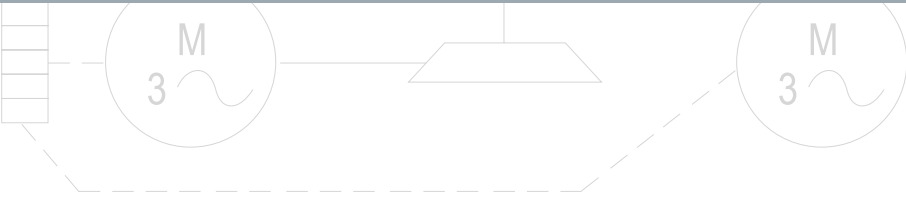
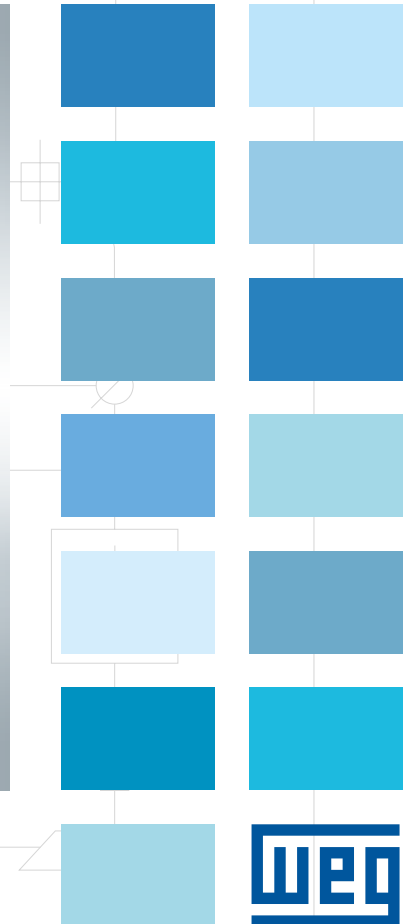
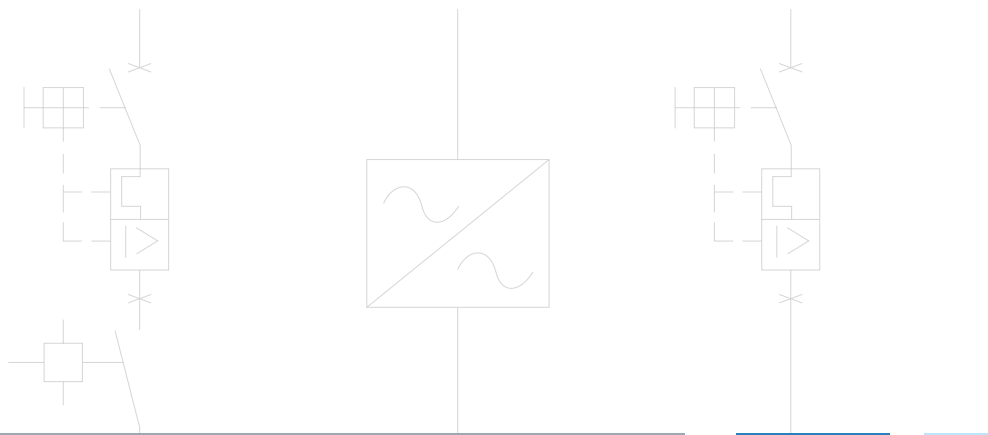


CFW500 Machinery Drives

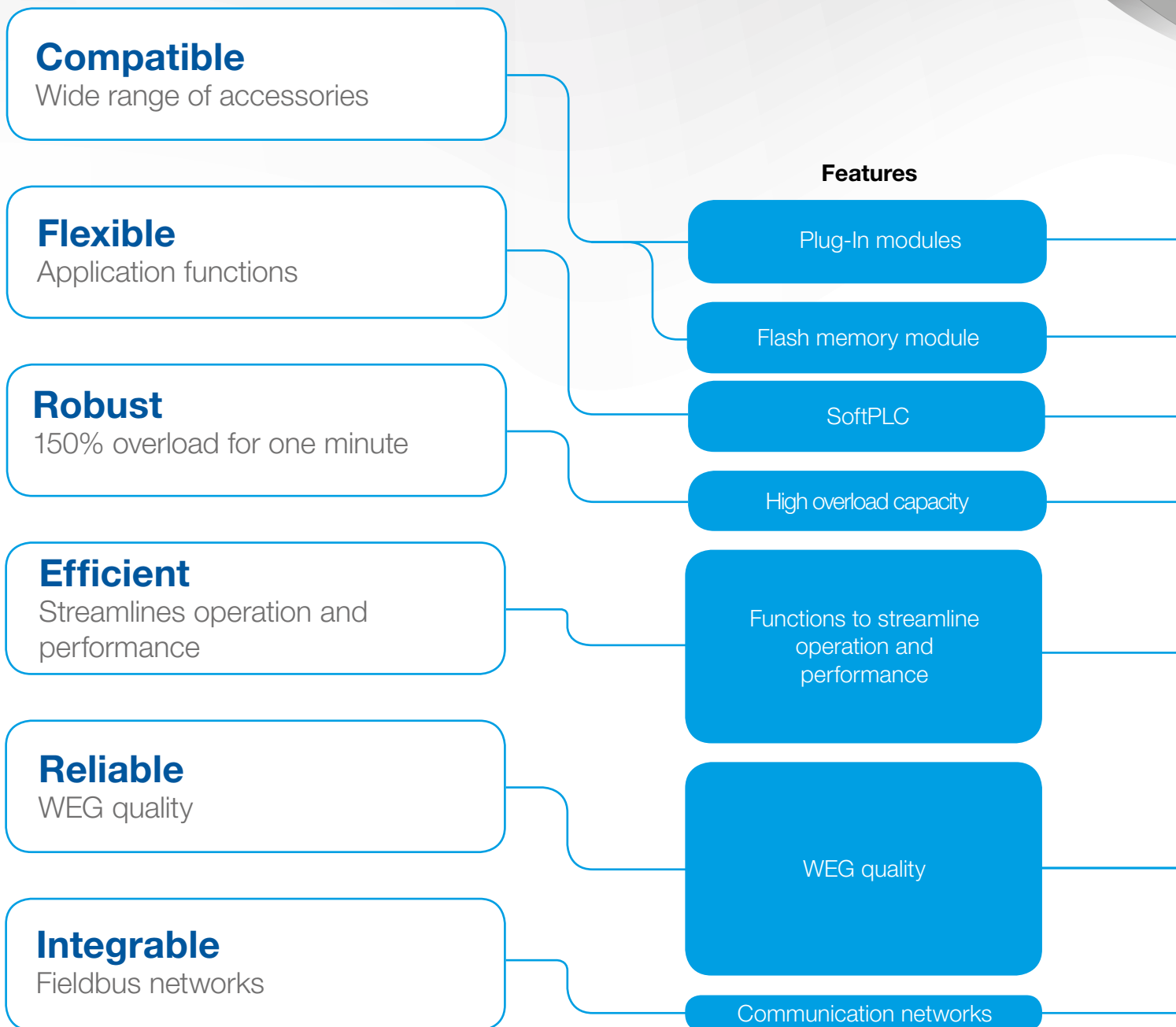
Variable Frequency Drives



CFW500

One VFD, endless possibilities

The CFW500 has advanced technology plug and play options, developed for fast commissioning, providing great flexibility and competitive advantage while offering excellent performance and reliability. Designed for exclusively industrial or professional use, is perfect for OEM, system integrators, panel installers and End Users providing great benefit from the added value.





Advantages

Benefits

The optional communication network and I/O modules are easily installed, allowing interface of the standard VFD to each application.

Quickly replicate the programming and application from one CFW500 to others without the need to apply power to the drive.

Built-in SoftPLC enables the VFD to do much more than just turn a motor. Programming flexibility combined with network and I/O options make the CFW500 a powerful part of an integrated system.

The standard CFW500 is capable of 150% overload for one minute, repeatable every 6 minutes, based on ambient temperature of 50 °C.

Integral PID for process control that includes 'Sleep Mode' to allow the VFD to stop or resume modulating automatically

Flying start synchronizes the CFW500 to a spinning motor to capture the motor and resume operation from the existing speed.

Ride through keeps the VFD in operation during voltage dips.

100% of the VFDs are tested with load at the factory under rated conditions.

Protection against ground fault, short circuit, over temperature and others.

Thermal protection of IGBTs based on manufacturer curve.

Conformal Coating as Standard. Classified as 3C2 per IEC specification 60721-3-3.

CANopen, DeviceNet, Profibus-DP and Modbus-RTU.

Time saving, standardization and optimized costs according to the needs.

Fast, easy and reliable programming for manufacturers that produce machines in large quantities.

Often eliminates the need for an external PLC, reducing costs, optimizing space and simplifying the system.

Does not require oversizing the VFD.

Saves energy and reduces running time on the motor and equipment.

Enables fast recovery of a spinning motor, reducing the time it takes to resume normal motor/drive operation while avoiding a fault trip condition.

Avoids fault tripping when there is a dip in the supply voltage. Prevents machine stoppage and downtime.

High reliability.

Prevents damage to the inverter caused by problems external to the VFD.

VFD lifespan is extended: protection against dust, humidity, high temperatures and chemicals.

Versatile integration with process networks for a wide range of applications.

Easy Configuration



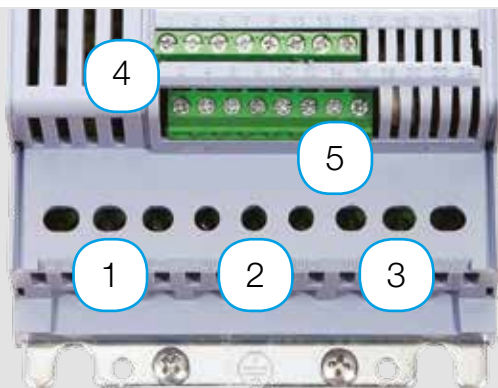
- Fast commissioning
- Innovative design, compact and uniform
- Optimized cost vs benefit



Plug-In Modules
Connections and interfaces made simple.

Fan
Simple and fast removal.

Conformal Coating as Standard
Increasing the lifetime, protecting the electronic boards against corrosive atmospheres. Classified as 3C2 according to IEC 60721-3-3.



With plug-in module CFW500-IOS

- 1 - Power terminals
- 2 - Access to DC link
- 3 - Motor terminals
- 4 - Control terminals (I/O)
- 5 - RS485 port



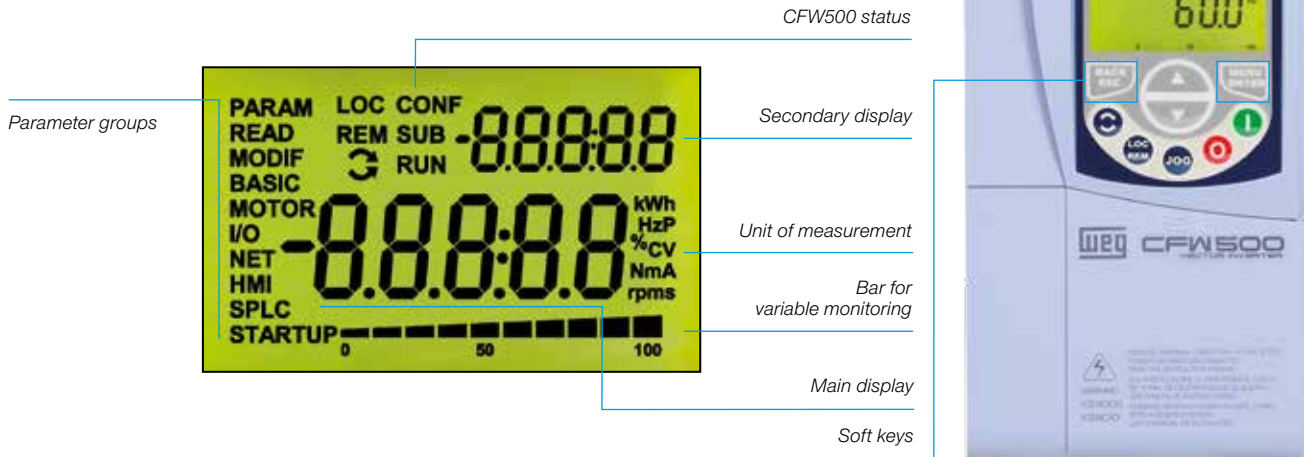
Applications

- Centrifugal pumps
- Process dosing pumps
- Fans / ventilators
- Blenders / mixers
- Compressors
- Conveyors
- Roller tables
- Granulators
- Commercial dryers
- Rotary filters



Human-Machine Interface

- Display up to three variables at the same time, selected by the user



Friendly Programming

- Oriented start-up: programming step by step
- Easy and intuitive operation, fast access to the parameters
- Parameter group: shortcut to the parameters of interest

Remote HMI

Suitable for enclosure door or machine console.



Energy Efficiency

In industry, electric motors are responsible for nearly 70% of all the electric energy consumption. By using VFD, is possible to reduce consumption up to 40%.

Besides being efficient in the control of electric motors, they reduce machine wear, save raw material, improve process quality and increase productivity.

Visit our WEG website, to calculate how much energy can be saved by using the CFW500 VFD - www.weg.net/us.

Ensure energy efficiency for your equipment and machines. Save money and contribute to the conservation of the environment.



Certifications



SuperDrive G2

Software application for programming, control and monitoring of WEG VFD.



USB connection

User-friendly environment

Free on www.weg.net



Trend Function

- On-line graphic monitoring of parameters/variables
- Capability to export an image of the respective graph based to the selected period

Changing and Monitoring of Parameters in a List/Table

Parameter set storage in a computer file format.

Number	Function	Minimum	Maximum	Factory Setting	User Setting	Unit
0	Access to Parameters	0	9999	0	0	
1	Speed Reference	0	65535	0	30	
2	Motor Speed	0	65535	0	30	
3	Motor Current	0	200	0	0.1	A
4	DC Link Voltage (V)	0	200	0	213	V
5	Motor Frequency	0	500	0	2.5	Hz
6	VFD Status	0	7	0 Ready	1: Run	
7	Motor Voltage	0	2000	0	43	V
8	Motor Torque	-3000	1000	0	-5.2	Nm
11	Motor Current	-1	1	0	0.75	
12	DOB to OCL Status	00000000b	11111111b	00000000b	00000000b	
13	DO5 to DO1 Status	00000000b	01111111b	00000000b	00000001b	
14	A01 Value	0	100	0	6.3	%
15	A02 Value	0	100	0	6.4	%
16	PI % Value	0	100	0	0	%
17	PI Hz Value	0	20000	0	0	Hz
18	A11 Value	-300	100	0	0	%
19	A12 Value	-300	100	0	0	%
20	A13 Value	-300	100	0	-180	%
21	PI % Value	-300	100	0	0	%
22	PI Hz Value	0	20000	0	0	Hz
23	Mean SIV Version	0	655.35	0	1.38	
24	Sec SIV Version	0	655.35	3.11	3	
27	Plug-In Mod. Config.	00000000b	00002002b	00000000b	00000001b	
28	Power HV Curly.	00000000b	00111111b	00000000b	00000001b	
30	HeatSink Temperature	-20	150	0	25	°C
37	Motor Overload Int	0	100	0	0	%
40	PID Process Variable	0	3000	0	0	
41	PID Setpoint Value	0	3000	0	0	
47	COBF State	0	999	0	0	
48	Present Alarm	0	999	0	0	
49	Present Fault	0	999	0	0	
50	Last Fault	0	999	0	0	
51	Current At Last Fault	0	300	0	0	A
52	DC Link At Last Fault	0	2000	0	0	V
53	Power Off At Last Fault	0	999	0	0	sec

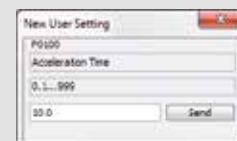
- Upload/download of parameters from the PC to the CFW500 and vice versa
- Off-line editing of parameters stored on the PC

Status Monitoring



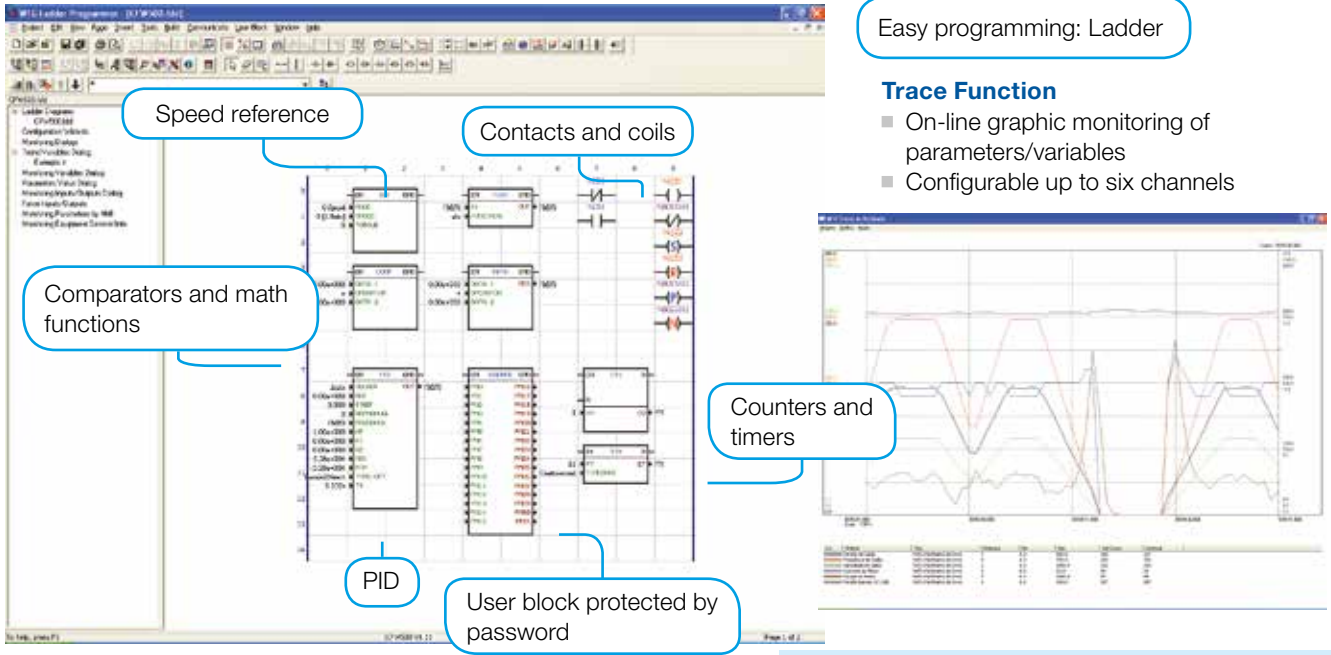
Operation with HMI

On-line parameter editing.



SoftPLC - Built-In on the Standard Product

Adds the functionality of a PLC to the CFW500, allowing the creation of special applications. The WLP software and the SoftPLC functionality are a smart and simple way to make your CFW500, motor and application work together.



Easy programming: Ladder

Trace Function

- On-line graphic monitoring of parameters/variables
- Configurable up to six channels

Speed reference

Contacts and coils

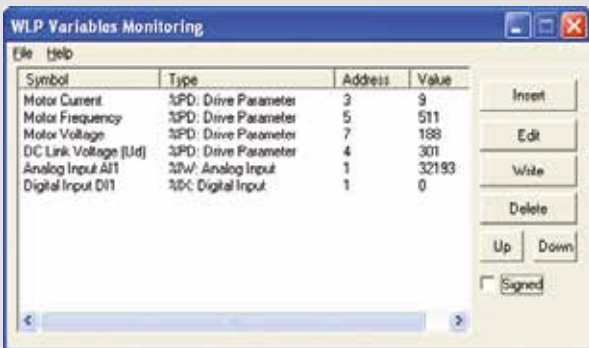
Comparators and math functions

Counters and timers

PID

User block protected by password

On-line Monitoring Parameters/Variables List



Symbol	Type	Address	Value
Motor Current	%PD: Drive Parameter	3	9
Motor Frequency	%PD: Drive Parameter	5	511
Motor Voltage	%PD: Drive Parameter	7	188
DC Link Voltage [Ud]	%PD: Drive Parameter	4	301
Analogue Input AI1	%IW: Analog Input	1	32193
Digital Input DI1	%X: Digital Input	1	0

Parameter Edition

It allows to change the parameters values.



Parameter Values

Parameter	Value
P0000	0
P0001	516
P0002	0
P0003	0
P0004	305
P0005	0
P0006	0
P0007	0
P0009	0

Parameter Value

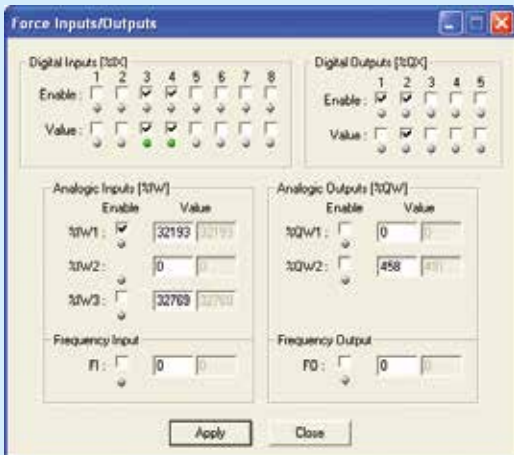
Parameter: Motor Current

Actual Value: []

Range: 0.0 ... 200.0 A

Enable/Disable I/O

It simplifies and speeds up the validation of the application.



Force Inputs/Outputs

Digital Inputs [%DI]: Enable [] Value []

Digital Outputs [%DO]: Enable [] Value []

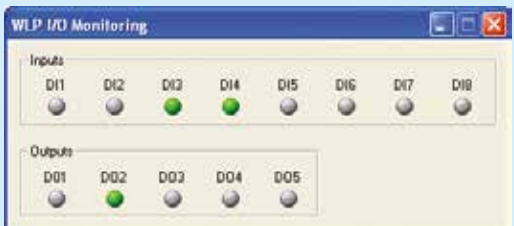
Analog Inputs [%IW]: %IW1: [] Value [32193] %IW2: [] Value [0] %IW3: [] Value [32768]

Analog Outputs [%QW]: %QW1: [] Value [0] %QW2: [] Value [458]

Frequency Input: FI: [] Value [0]

Frequency Output: FO: [] Value [0]

I/O Monitoring



WLP I/O Monitoring

Inputs: DI1, DI2, DI3, DI4, DI5, DI6, DI7, DI8

Outputs: DO1, DO2, DO3, DO4, DO5

Product Coding

The CFW500 code identifies its construction characteristics, nominal current, voltage range and optionals. Using the product code, it is possible to select the CFW500 required for your application simply and quickly.

Product and series	Drive identification				Braking option	Protection class	RFI emission level	Hardware revision	Software version
	Frame	Rated current	Supply phases	Rated voltage					
CFW500	A, B, C or D	01P6 up to 31P0	S, B or T	2 or 4	NB or DB	N1 or 20	C2 or C3	- - -	- - -
CFW500	Refer to table								
	NB = without dynamic braking DB = with dynamic braking								
	20 = IP20 N1 = NEMA1 enclosure								
	Blank = with no RFI filter C2 = meets category 2 of IEC 61800-3 standard, with internal RFI filter C3 = meets category 3 of IEC 61800-3 standard, with internal RFI filter								
	Blank = standard plug-in module (CFW500-IOS) H00 = without plug-in module								
	Sx = Special software Blank = Standard software								

Frame size	Rated output current	Supply phases	Supply voltage	Braking feature	Protection class	RFI emission level
A	01P6 = 1.6 Amps	S = Single-phase	2 = 200 V...240 V ac	NB	20 = IP20 N1 = NEMA1	Blank or C2
	02P6 = 2.6 Amps					Blank or C3
	04P3 = 4.3 Amps					Blank
	07P0 = 7.0 Amps					
A	B = Single-phase or Three-phase	01P6 = 1.6 Amps				
		02P6 = 2.6 Amps				
		04P3 = 4.3 Amps				
B	T = Three-phase	07P3 = 7.3 Amps		DB		
		10P0 = 10.0 Amps				
A		07P0 = 7.0 Amps		NB		
B		09P6 = 9.6 Amps	DB	Blank or C3		
C		16P0 = 16.0 Amps				
D		24P0 = 24.0 Amps				
		28P0 = 28.0 Amps				
		33P0 = 33.0 Amps				
A	T = Three-phase	4 = 380...480 V ac	NB	Blank or C2		
					01P0 = 1.0 Amps	
					01P6 = 1.6 Amps	
					02P6 = 2.6 Amps	
					04P3 = 4.3 Amps	
B	DB		06P1 = 6.1 Amps	Blank or C3		
			02P7 = 2.7 Amps	Blank or C2		
			04P3 = 4.3 Amps	Blank or C3		
			06P5 = 6.5 Amps			
C			10P0 = 10.0 Amps	Blank or C2		
		14P0 = 14.0 Amps	Blank or C2			
D		16P0 = 16.0 Amps	Blank or C3			
		24P0 = 24.0 Amps	Blank or C2			
		31P0 = 31.0 Amps	Blank or C3			

Notes: 1) To know which models have these options in the standard product the table below should be checked.

2) RFI filter.

Categories:

- Category C1: inverters with voltages below 1,000 V, for use in the First Environment.
- Category C2: inverters with voltages below 1,000 V, with plugs or mobile installation, when used in the "First Environment", must be installed and started-up by a qualified professional.
- Category C3: inverters with voltages below 1,000 V, developed for use in the Second Environment and not designed for use in the "First Environment".

Environments:

- First Environment: environments that include household installations, such as buildings directly connected, without intermediate transformer, to a low-voltage power supply grid, which supplies buildings used for domestic purposes.
- Second Environment: includes all the buildings other than those directly connected to a low-voltage power supply grid, which supplies buildings used for domestic purposes.

For the RFI filters of external installations, refer to the CFW500 user manual.

Drive Ratings

The correct way to select a VFD is matching its output current with the motor rated current. However, the tables below present the approximate motor power for each VFD model. Use the motor power ratings below only as a guide. Motor rated currents may vary with speed and manufacturer.

Motor volts	Motor HP	Rated current (A)	Catalog number	Frame size	Enclosure	Braking transistor	Dimensions (in.) H x W x D	App. shpg. wt. (lbs)
230 V	Input power supply: single-phase 200 - 240 V							
	1/4 or 1/3	1.6	CFW500 A 01P6 S2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	3/4	2.6	CFW500 A 02P6 S2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	1.5	4.3	CFW500 A 04P3 S2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	2	7	CFW500 A 07P0 S2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	Input power supply: single or three-phase 200 - 240 V							
	1/4 or 1/3	1.6	CFW500 A 01P6 B2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	3/4	2.6	CFW500 A 02P6 B2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	1.5	4.3	CFW500 A 04P3 B2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	2	7.3	CFW500 B 07P3 B2 DB N1	B	NEMA 1	Yes	9.6 x 3.9 x 6.3	3.3 (1.5)
	3	10	CFW500 B 10P0 B2 DB N1	B	NEMA 1	Yes	9.6 x 3.9 x 6.3	3.3 (1.5)
	Input power supply: three-phase 200 - 240 V							
	2	7	CFW500 A 07P0 T2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	3	9.6	CFW500 A 09P6 T2 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	5	16	CFW500 B 16P0 T2 DB N1	B	NEMA 1	Yes	9.6 x 3.9 x 6.3	3.3 (1.5)
	7.5	24	CFW500 C 24P0 T2 DB N1	C	NEMA 1	Yes	10.0 x 5.3 x 6.5	5.3 (2.4)
	10	28	CFW500 D 28P0 T2 DB N1	D	NEMA 1	Yes	14.3 x 7.1 x 6.6	10.2 (4.6)
	15	47	CFW500 D 47P0 T2 DB N1	D	NEMA 1	Yes	14.3 x 7.1 x 6.6	10.2 (4.6)
460 V	Input power supply: three-phase 380 - 480 V							
	1/2	1	CFW500 A 01P0 T4 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	1	1.6	CFW500 A 01P6 T4 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	2	2.6	CFW500 A 02P6 T4 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	3	4.3	CFW500 A 04P3 T4 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	3	6.1	CFW500 A 06P1 T4 NB N1	A	NEMA 1	No	8.8 x 3.0 x 5.9	2.4 (1.1)
	2	2.6	CFW500 B 02P6 T4 DB N1	B	NEMA 1	Yes	9.6 x 3.9 x 6.3	3.3 (1.5)
	3	4.3	CFW500 B 04P3 T4 DB N1	B	NEMA 1	Yes	9.6 x 3.9 x 6.3	3.3 (1.5)
	5	6.5	CFW500 B 06P5 T4 DB N1	B	NEMA 1	Yes	9.6 x 3.9 x 6.3	3.3 (1.5)
	7.5	10	CFW500 B 10P0 T4 DB N1	B	NEMA 1	Yes	9.6 x 3.9 x 6.3	3.3 (1.5)
	10	14	CFW500 C 14P0 T4 DB N1	C	NEMA 1	Yes	10.0 x 5.3 x 6.5	5.3 (2.4)
	15	24	CFW500 D 24P0 T4 DB N1	D	NEMA 1	Yes	14.3 x 7.1 x 6.6	10.2 (4.6)
	25	31	CFW500 D 31P0 T4 DB N1	D	NEMA 1	Yes	14.3 x 7.1 x 6.6	10.2 (4.6)

Notes: HP rating based on FLA values from WEG W22, 2 and 4 poles, 230 V ac and 460 V ac, NEMA motors. Use as a guide only. Motor FLA may vary with speed and manufacturer. Always compare motor FLA to Nominal AMPS of VFD and overload conditions.



Accessories and Optionals

The CFW500 VFD was developed to meet the hardware configurations required by a wide range of applications. The table below presents the available options:

Option	Type ¹⁾	Description	Optional item code ²⁾	Accessory code	Available
RFI filter	Optional	Used to reduce the disturbance conducted from the CFW500 to the power supply, in the high frequency band (>150 kHz), according to standards 61800-3 and EN 55011.	C2 or C3	-	Factory installation only
Braking IGBT	Optional	Used in high-inertia applications for the fast stop of the motor by means of an external braking resistance. Resistance not included. For the calculation of the braking resistance, refer to the CFW500 user manual.	DB	-	Factory installation only
Degree of protection NEMA1	Optional or accessory	Used for the CFW500 VFD to have degree of protection NEMA1 and/or when metallic conduits are used for the cables.	N1	CFW500-KN1A (frame size A) CFW500-KN1B (frame size B) CFW500-KN1C (frame size C) CFW500-KN1D (frame size D)	Factory or user installation
Cable shield kit	Accessory	Used to shield the power and control cables. Important: for the version with RFI filter, this filter comes with the product.	-	CFW500-KPCSA (frame size A) CFW500-KPCSB (frame size B) CFW500-KPCSC (frame size C) CFW500-KPCSD (frame size D)	User installation
I/O expansion modules (plug-in) ³⁾	Accessory	Used to configure the I/O points according to the needs of the application/machine.	-	CFW500-IOS CFW500-IOD CFW500-IOAD CFW500-IOR	-
Communication module (plug-in) ³⁾	Accessory	Used for the communication of the CFW500 with the main networks of the market (Fieldbus).	-	CFW500-CUSB (USB) CFW500-CCAN (CANopen / DeviceNet) CFW500-CRS232 CFW500-CRS485 CFW500-CPDP (Profibus-DP)	-
Flash memory module (plug-in) ³⁾	Accessory	Used to download the programming of a CFW500 to others without having to power them up.	-	CFW500-MMF	-
Remote keypad	Accessory	Used to transfer the operation to the panel door or machine console. Maximum distance of 10 m. Degree of protection IP54.	-	CFW500-HMIR	-
Cables for remote keypad	Accessory	Used to interconnect the CFW500 to the remote HMI (CFW500-HMIR).	-	CFW500-CCHMIRXM, where cables with lengths (X) of 1, 2, 3, 5, 7,5 and 10 meters	-

Plug-In Modules Specification ³⁾

CFW 500 option module	Option card I/O table											
	DI	AI	AO	DOR	DOT	USB	CAN	RS232	RS485	Profibus	10 V dc	24 V dc
CFW500-IOS ⁴⁾	4	1	1	1	1				1		1	1
CFW500-IOD	8	1	1	1	4				1		1	1
CFW500-IOAD	6	3	2	1	3				1		1	1
CFW500-IOR	5	1	1	4	1				1		1	1
CFW500-CUSB	4	1	1	1	1	1			1		1	1
CFW500-CCAN	2	1	1	1	1		1		1		1	1
CFW500-CRS232	2	1	1	1	1			1	1			1
CFW500-CRS485	4	2	1	2	1				2		1	1
CFW500-CPDP	2	1	1	1	1				1	1		1

Notes: 1) Optional = hardware resources added to the CFW500 in the manufacturing process. Accessory = hardware resource requested as a separated item.

2) Request the product according to the code available on page 10.

3) All models of plug-in modules have at least one RS485 port. The CFW500-CRS485 plug-in module has two RS485 ports. The CFW500 allows installing one plug-in module per unit.

4) CFW500-IOS module included as standard on all drives.

Dimensions and Weights



IP20

Frame size IP20	Height in. (mm)	Width in. (mm)	Depth in. (mm)	Weight lbs. (kg)
A	7.4 (189.1)	3.0 (75.2)	5.9 (149.5)	1.8 (0.8)
B	7.8 (199.1)	3.9 (100.2)	6.3 (160.1)	2.6 (1.2)
C	8.3 (210.0)	5.3 (135.2)	6.5 (165.1)	4.4 (2.0)
D	12.1 (306.6)	7.1 (180.0)	6.6 (166.4)	9.5 (4.3)



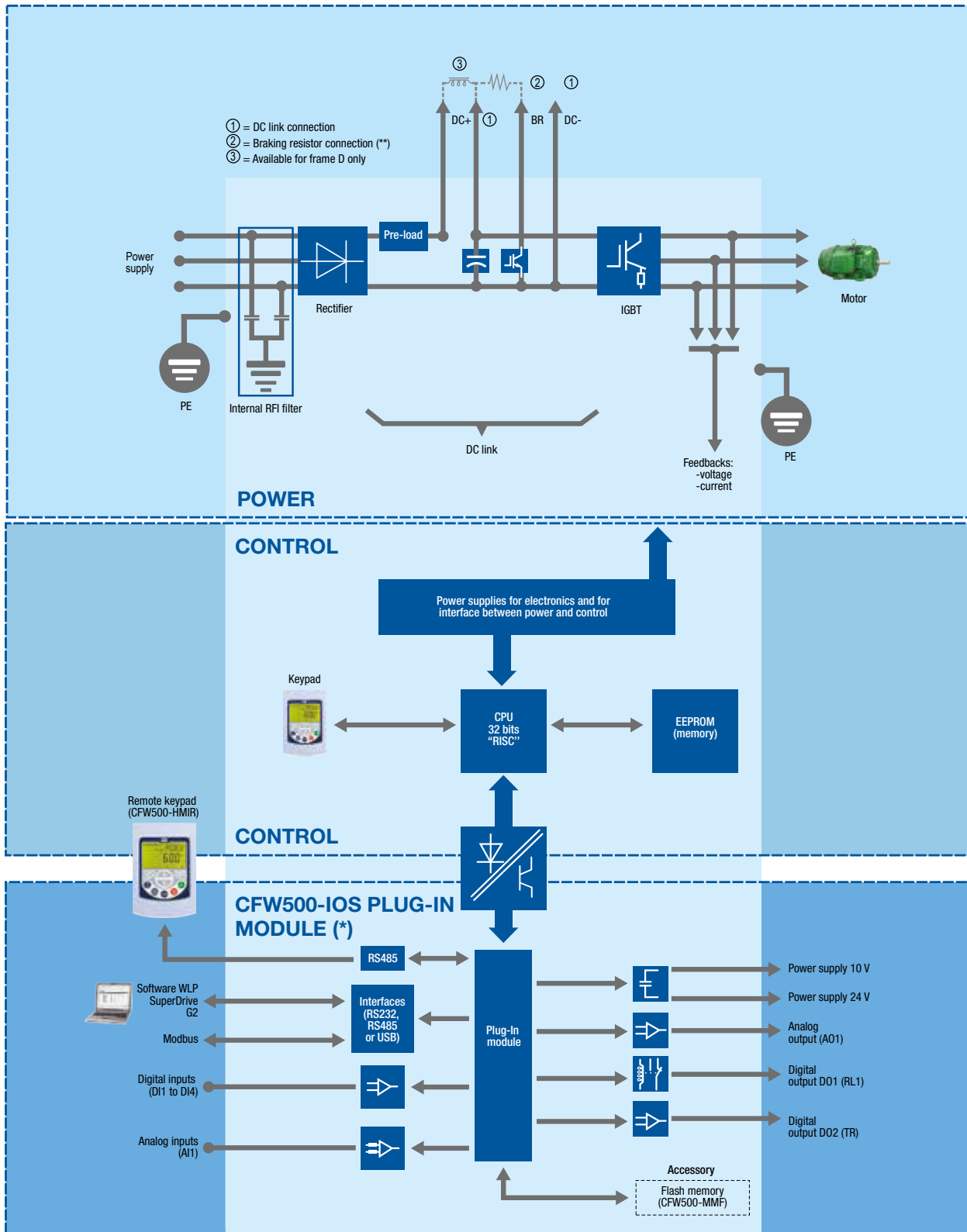
NEMA1

Frame size NEMA1	Height in. (mm)	Width in. (mm)	Depth in. (mm)	Weight lbs. (kg)
A	8.8 (223.0)	3.0 (75.2)	5.9 (149.5)	2.4 (1.1)
B	9.6 (243.3)	3.9 (100.2)	6.3 (160.1)	3.3 (1.5)
C	10.0 (254.8)	5.3 (135.2)	6.5 (165.1)	5.3 (2.4)
D	14.3 (361.9)	7.1 (180.0)	6.6 (166.4)	10.2 (4.6)

Step by Step



Block Diagram



Notes: (*) The number of inputs and outputs (analog and digital), as well as other resources, may vary according to the used plug-in module. For further information, refer to the CFW500 user manual.
 (**) Not available for frame size A.

Technical Data

Power supply	Voltage and power range	1-phase, 200-240 V ac (+10%-15%) 0.25 to 2 HP (0.25 to 1.5 kW)
		1-phase/3-phase, 200-240 V ac (+10%-15%) 0.25 to 3 HP (0.25 to 2.2 kW)
	Supply frequency	3-phase, 200-240 V ac (+10%-15%) 2 to 15 HP (1.5 to 11 kW)
		3-phase, 380-480 V ac (+10%-15%) 0.5 to 25 HP (0.25 to 19 kW)
Motor connection	Voltage	3-phase, 0-100% of supplied voltage
	Output frequency	0 a 500 Hz
	Displacement power factor	>0.97
	Overload capacity	1.5 x In (drive) for 1 minute every 6 minutes
	Switching frequency	Default 5 kHz (selectable 2.5 to 15 kHz)
	Acceleration time	0.1 to 999s
	Deceleration time	0.1 to 999s
Environment	Temperature	40 °C - NEMA1
		40 °C - IP20 side by side and/or with RFI filter 50 °C - IP20 without RFI filter (except the models for 9.6 A and 24 A for 200-240 V) 2% of current derating for each °C above the specific operating temperature, limited to an increase of 10 °C
	Humidity	5% to 95% non-condensing
	Altitude	Up to 1,000 m - rated conditions
		1,000 m to 4,000 m - 1% of current derating for each 100 m above 1,000 m of altitude
Degree of protection	IP20 or NEMA1 (with NEMA1 kit)	
Performance	V/f control	Speed regulation: 1% of the rated speed (with slip compensation) Speed variation range: 1:20
		Vector control (VVV)
	Braking methods	DC current applied to motor dynamic braking
Safety	Protection	Overcurrent/phase-phase short circuit in the output
		Overcurrent/phase-ground short circuit in the output
		Under/overvoltage
		Overtemperature in the heatsink
		Overload in the motor
		Overload in the power module (IGBTs)
		External alarm / fault
Setting error		
Communication	Modbus-RTU	All plug-in modules for RS485 and CFW500-CRS232 for RS232
	Profibus-DP	Plug-in module CFW500-CPDP
	DeviceNet	Plug-in module CFW500-CCAN
	CANopen	Plug-in module CFW500-CCAN
Chokes (external as accessory)	AC input chokes	For reducing THD
	AC output chokes	For longer motor cables

Technical Data - Standards

Safety standards	UL 508C	Power conversion equipment.
	UL 840	Insulation coordination including clearances and creepage distances for electrical equipment.
	EN 61800-5-1	Safety requirements electrical, thermal and energy.
	EN 50178	Electronic equipment for use in power installations.
	EN 60204-1	Safety of machinery. Electrical equipment of machines. Part 1: General requirements. <i>Note: For the machine to comply with this standard, the manufacturer of the machine is responsible for installing an emergency stop device and equipment to disconnect the input power supply.</i>
	EN 60146 (IEC 146)	Semiconductor converters.
	EN 61800-2	Adjustable speed electrical power drive systems - Part 2: General requirements - Rating specifications for low voltage adjustable frequency AC power drive systems.
Electromagnetic compatibility (EMC) Standards	EN 61800-3	Adjustable speed electrical power drive systems - Part 3: EMC product standard including specific test methods.
	EN 55011	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment.
	CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement.
	EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test.
	EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic field immunity test.
	EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test.
	EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 5: Surge immunity test.
Mechanical construction standards	EN 60529	Degrees of protection provided by enclosures (IP code).
	UL 50	Enclosures for electrical equipment.

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